

L172000000--Marshall Co.  
Henry Public Well #3  
ILD984766394  
Vol. 1 of 2



# **CERCLA**

## **Screening Site Inspection Report**



**Illinois Environmental  
Protection Agency**  
P.O. Box 19276  
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EPA Region 5 Records Ctr.



328179

***Confidential Material May be Enclosed***

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## 1. INTRODUCTION

The Illinois Environmental Protection Agency's Pre-Remedial Unit was tasked by the United States Environmental Protection Agency (USEPA) to conduct a screening site inspection (SSI) of the Henry Public Well #3 site.

The site was initially discovered by the Illinois Environmental Protection Agency and was evaluated in the form of a Preliminary Assessment (PA) that was submitted to USEPA. The PA was prepared by John Morgan of the IEPA and dated December 9, 1988. The IEPA's Pre-Remedial Unit prepared an SSI work plan of the Henry Public Well #3 site that was approved by USEPA. The SSI of this site was conducted on August 2, 1989. The IEPA's SSI included an interview with the site representative, a reconnaissance inspection, monitor well installation and the collection of 9 samples (4 soil and 5 groundwater).

The purposes of an SSI have been stated by USEPA in a directive outlining Pre-Remedial Program strategies. The directive states:

All sites will receive a screening SI to 1) collect additional data beyond the PA to enable a more refined preliminary HRS (Hazard Ranking System) score, 2) establish priorities among sites most likely to qualify for the NPL (National Priorities List), and 3) identify the most critical data requirements for the listing SI step. A screening SI will not have rigorous data quality objectives (DQOs). Based on the refined preliminary HRS score and other technical judgement factors, the site will then either be designated as NFRAP (no further remedial action planned), or carried forward as an NPL listing candidate. A listing SI will not automatically be done on these sites, however. First, they will go through a management evaluation to determine whether they can be addressed by another authority such as RCRA (Resource Conservation and Recovery Act) ... Sites that are designated NFRAP or deferred to other statutes are not candidates for a listing SI.

The listing SI will address all the data requirements of the revised HRS using field screening and NPL level DQOs. It may also provide needed data in a format to support remedial investigation work plan development. Only sites that appear to score high enough for listing and that have not been deferred to another authority will receive a listing SI (USEPA 1988).

USEPA Region V has also instructed IEPA to identify sites during the SSI that may require removal action to remediate an immediate human health and/or environmental threat.

## 2. SITE BACKGROUND

### 2.1 INTRODUCTION

This section includes information obtained from the SSI work plan preparation and site representative interview.

### 2.2 SITE DESCRIPTION

Henry Public Well #3 is part of the City of Henry's water supply system which consists of two other public wells. The use of well #3 has been discontinued since October, 1988 due to contamination by unidentified compounds ranging in concentration from 18 parts per billion (ppb) to 200 ppb. Well #3 is housed in an 8 foot x 8 foot brick structure with a locked door for security. This structure is located 30 feet northeast of the water department building on City Water Works property. The water works property is located just south of the downtown Henry area in Marshall County (Figure 2-1). The parcel of land occupied by the water works consists of 2 acres in the SE 1/4, NW 1/4, SE 1/4 of Section 16 T.13N. - R.10E. (Figure 2-2). For potential groundwater and surface water migration, a 4-mile radius groundwater route map (Appendix A) surrounding the site and a surface water route map (Appendix B) are provided.

### 2.3 SITE HISTORY

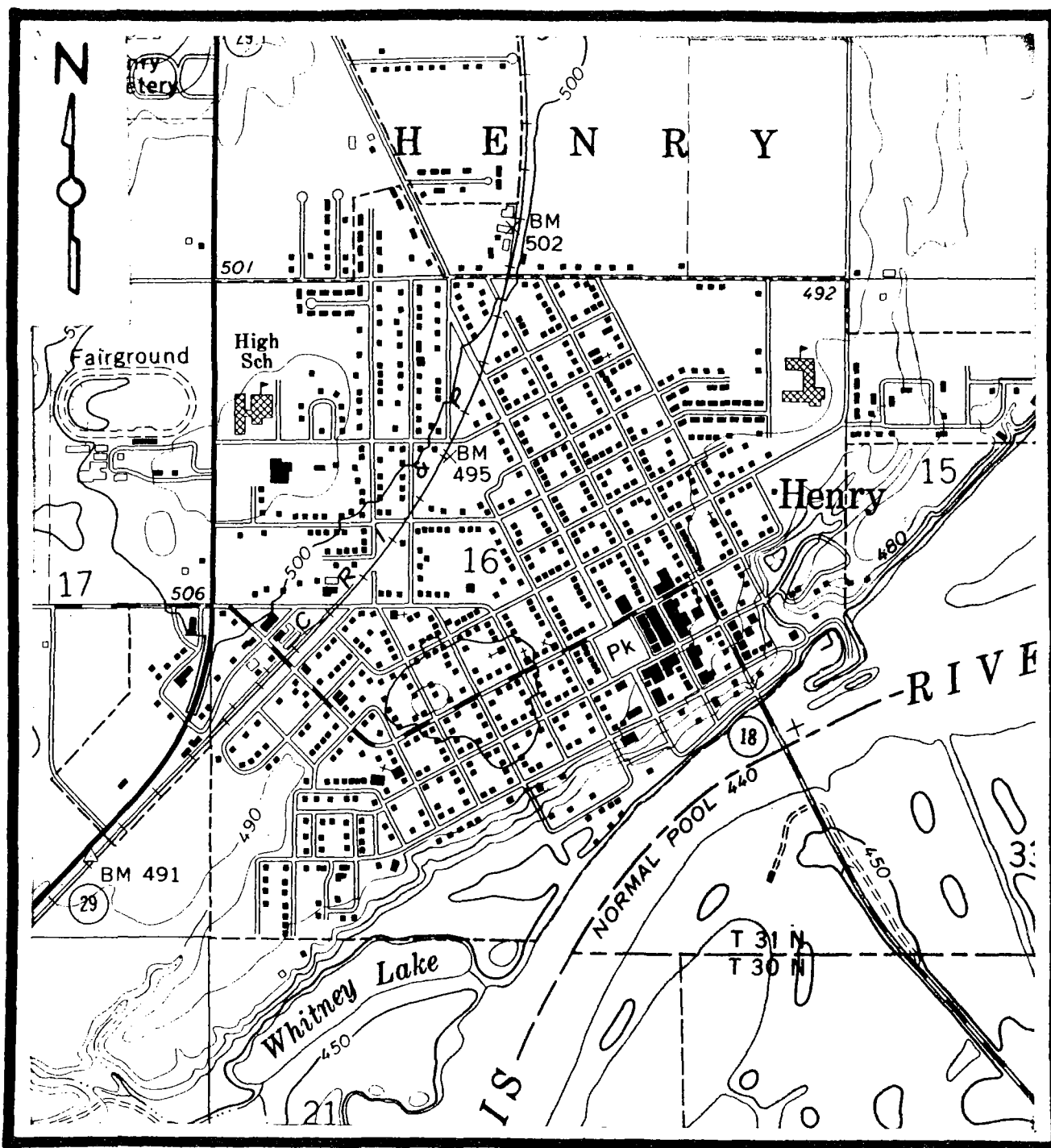
Well #3 is situated on City owned property. This well was drilled in 1936 by Mike Schwidersh of Henry to a depth of 62 feet and put into service the same year. The well was completed in the Sankoty Sand, a sand and gravel

HENRY PUBLIC  
WELL No. 3,  
HENRY, IL.



SITE LOCATION

FIGURE 2-1



SOURCE: IEPA, 1989

SITE MAP

FIGURE 2-2



alluvium aquifer. This sand and gravel strata extends from 16 feet to 74 feet in depth. This strata is underlain by Pennsylvanian Age silty-shale bedrock. Well #3 is cased with 12 inch diameter steel casing from the ground surface to a depth of 48 feet followed by 14 feet of Number 30 slot stainless steel screen for a total depth of 62 feet.

The Illinois EPA's Pre-Remedial Unit became involved with the Henry public water supply when routine sampling event analysis determined that there were unidentified compounds contaminating the well. Concentrations have ranged from 18-200 ppb (Reference Figure 2-3). The water supply system consisting of three wells, is owned and operated by the City of Henry and serves approximately 2,740 persons. Water is also obtained using wells #4 and #5. Well #4 is 130 feet west of well #3 and well #5 is 1.33 miles northwest of well #3. All three wells obtain water from the same aquifer. The raw water is chlorinated, fluoridated and pumped to a 200,000 gallons above ground storage tower then to the distribution system. City officials have indicated that wells #4 and #5 can sufficiently supply the systems needs while well #3 is shut down.

SAMPLE SUMMARY INFORMATION

HENERY PUBLIC WELL#3

<u>Date</u>	<u>Parameter</u>	<u>concentration</u>
2/1/88	2-butene (tentative id) unidentified compound	18 ppb 145 ppb
5/16/88	unidentified compound	87 ppb
9/30/88	unidentified compound	200 ppb
1/03/89	none detected	---

FIGURE 2-3

### 3. SCREENING SITE INSPECTION PROCEDURES AND FIELD OBSERVATIONS

#### 3.1 INTRODUCTION

This section outlines procedures and observations of the SSI at the Henry Public Well #3 site, including monitor well installation. Individual subsections address the site representative interview, reconnaissance inspection, monitor well installation, monitor well data and sampling procedures. The SSI was conducted in accordance with the USEPA-approved work plan.

The USEPA Potential Hazardous Waste Site Inspection Report (Form 2070-13) for the Henry Public Well site is provided in Appendix C.

#### 3.2 SITE REPRESENTATIVE INTERVIEW

Kenneth W. Corkill, IEPA team leader, conducted an interview with Tom Maubach, water superintendent and site representative of the Henry Public Well system in Henry, Illinois. An interview was conducted at the site on March 20, 1989 by the IEPA.

Also present during the interview was Jeanine Morse of IEPA's Hydrogeology Investigation and Evaluation Unit. The interview was conducted to inform Mr. Maubach of IEPA's intentions and ask if the City had suggestions or disagreements regarding procedures and placements of the proposed monitor wells. The plans as proposed involved the installation of four monitor wells to determine groundwater flow direction, local geology, possible sources and extent of contamination. IEPA personnel proposed the use of City property for placement of the monitor wells, which was also what Mr. Maubach was going to

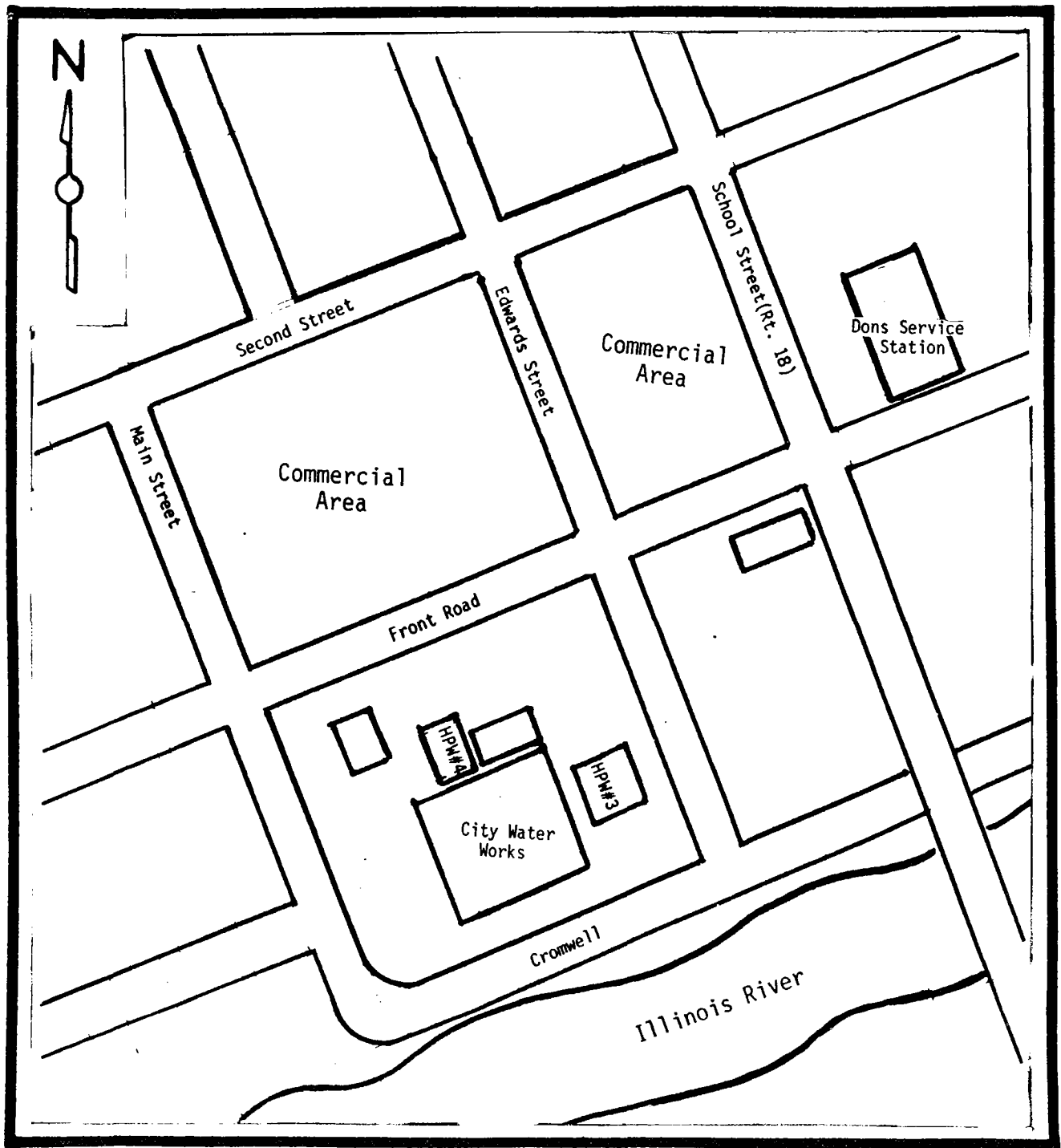
suggest. Use of water department property and city rights-of-way locations were then agreed upon.

### 3.3 RECONNAISSANCE INSPECTION

Following the site representative interview, IEPA personnel conducted a reconnaissance inspection of the Henry PWS site and surrounding area. The reconnaissance inspection included a walk-through of the site to identify the four potential locations for monitor wells, three or four locations for soil samples, and to determine appropriate health and safety requirements. Mr. Maubach accompanied the IEPA personnel on the reconnaissance inspection.

Reconnaissance Inspection Observations. The area of concern in Henry is south of the downtown area near commercial and residential property. Residential yards and some business property is covered with grass. Various areas are also gravel (parking areas) and concrete covered (streets and parking). Surface topography in the area consists of gently rolling low hills both north and south of the Illinois River with a wide, generally flat flood plain toward the south bank of the River. Along the north bank at Henry, land surface rises quickly from (southeast to northwest) 440 feet above sea level to 490 feet within a distance of 800 feet from rivers edge to the middle of the downtown area. Well #3 is placed on the river floodplain at an elevation of 460 feet above sea level with land surface sloping southeast toward the Illinois River (Figure 3-1).

Water department property including Well #3 is bordered on the northwest by Front Street, northeast by Edward Street, southwest by Main Street and on the southeast by Cromwell Drive and the Illinois River. The river is



SOURCE: IEPA, 1989

## SITE FEATURES

FIGURE 3-1

approximately 200 feet southeast of Well #3. The well is enclosed in a brick well house equipped with a locking door. No other security measures are employed.

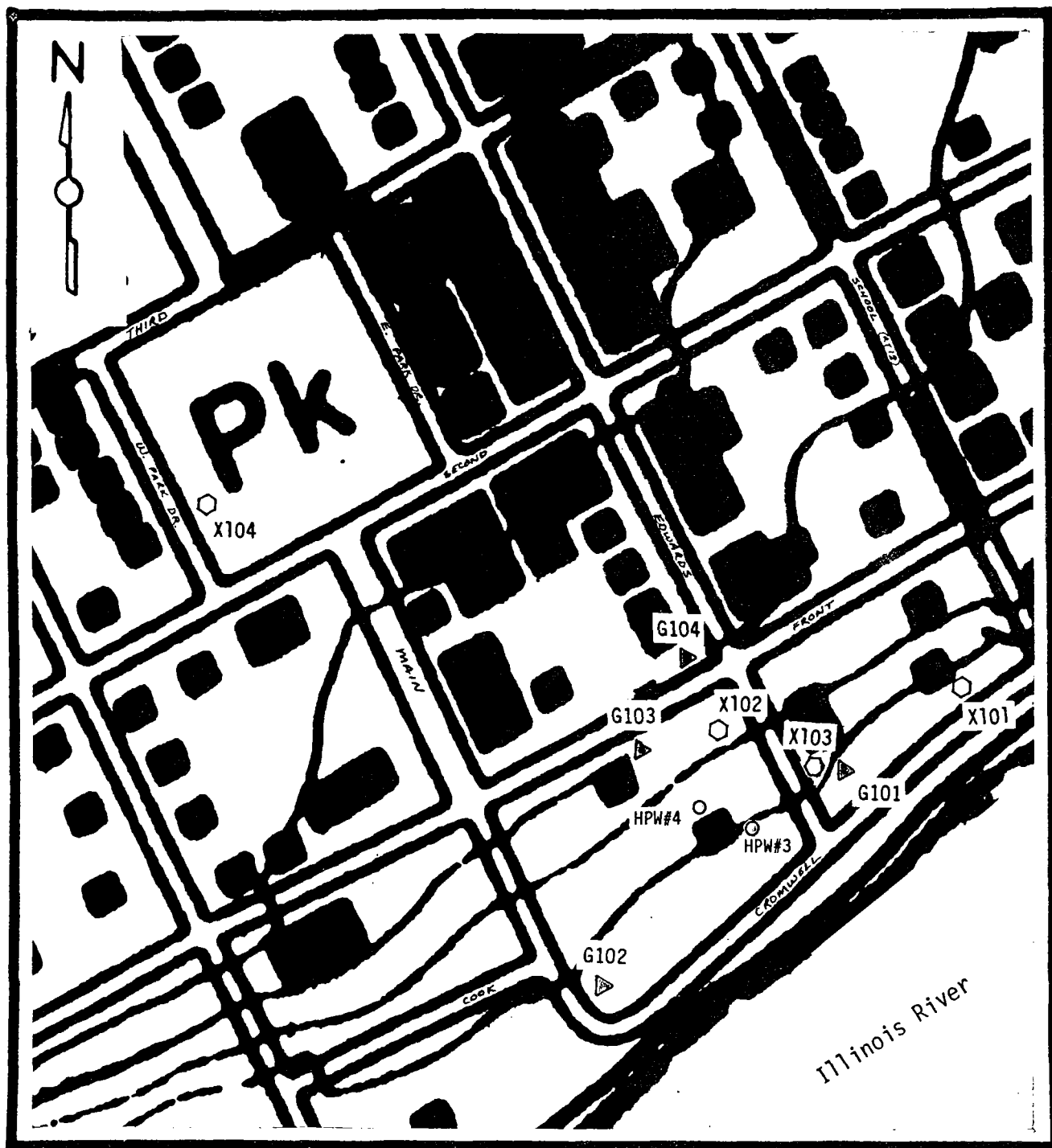
During the walk/drive through of the site area no obvious or blatant contamination sources were found. However, the Public Water Supply Division of IEPA assembled a list of a number of businesses or facilities including the water department property which may have the potential to contribute a contaminant to the subject well. The water department has two underground fuel storage tanks on their property. Monitor well placement was partially based on this list.

#### 3.4 MONITOR WELL INSTALLATION

Groundwater monitor well installation began on July 11, 1989 with the drilling of G101, G102 and G104 and ended on July 12, 1989 with the completion of G103 (Figure 3-2 for monitor well locations). Each well was augered to its respective depth between 30.0 feet and 65.0 feet with the aquifer of concern screened with a five foot screen section near the bottom of the bore hole. Each well was cased using Johnson #304 type stainless steel casing and screening with a cap and a steel protective cover placed over the casing. Each protective cover was grouted in place and locked before moving to another well location. Well logs of the four monitor wells installed around the Henry site are provided in Appendix D.

#### 3.5 MONITOR WELL DATA

Groundwater elevations were measured on July 12, 1989, July 13, 1989 and August 2, 1989. A groundwater direction map drawn from the data collected



SOURCE: IEPA, 1989

MONITOR WELL  
LOCATIONS  
&  
SAMPLE LOCATIONS

FIGURE 3-2  
3-5

indicated a south-southwesterly groundwater flow. Groundwater measurements and a groundwater flow map for the monitor wells installed around the Henry PWS site are provided in Appendix E.

### 3.6 SAMPLING PROCEDURES

Samples were collected by IEPA personnel to determine levels of USEPA Target Compound List (TCL) compounds present at the site. The Target Compound List is provided in Appendix F.

On August 2, 1989, IEPA personnel collected five groundwater samples, and four soil samples (see Figure 3-2 for the nine sampling locations).

Groundwater Sampling Procedures. The four monitor wells and one public supply well samples (indicated as G101, G102, G103, G104 and G501 on Figure 3-2) were collected to determine if any contaminants had migrated to any other area besides well #3 via groundwater. All wells had five well volumes purged, with pH, conductivity and temperature measured before purging, at 2.5 well volumes and immediately prior to sample collection. The wells were purged and sampled with a three foot teflon bailer and nylon cord. The public well was run for 20 minutes with the same measurements taken during purging. Samples were collected directly from a tap on the well in the well house. Total metals and mercury were field filtered with a Masterflex variable speed peristaltic pump. After sample collection the bottles were dried and preservatives were added to bottles requiring such. Evidence tape was placed on all bottle caps. The bottles were then packaged in coolers in accordance with USEPA required procedures.

Soil Sampling Procedures. Three soil samples were collected to compare three potentially contaminated areas (X101, X102 and X103) with one background



sample (X104). X101 was taken 40 feet southeast of the Smith Lumber building and 150 feet northeast of Edward Street. X102 was taken 20 feet southwest of Edward Street and 30 feet southeast of Front Street. X103 was taken 15 feet northeast of Edward Street and 50 feet northwest of Cromwell Drive. X104 was taken as the background because soil in this area appeared to be representative and undisturbed. The location of X104 was 100 feet northwest of Second Street and 15 feet northeast of West Park Drive.

All soil samples were collected with stainless steel augers. Sample depth for X101 was 4 feet to 4.5 feet deep. X102 was 5.0 feet deep, X103 was 3.0 feet deep and X104 was 4.5 feet deep. Soil collected in the augers was transferred directly to sample jars.

Each sample jar was evidence taped and packaged in coolers in accordance with USEPA required procedures. All samples were analyzed for the Target Compound List constituents. Samples requiring analysis for inorganics were sent to IEPA's Champaign lab, while samples requiring analysis for organics were delivered to IEPA's Springfield lab. Photographs of the site and sample points are provided in Appendix G (Figure 3-3 for photo location map).

Decontamination Procedures: Standard Illinois Environmental Protection Agency decontamination procedures were followed prior to the collection of all samples. The procedures included the scrubbing of all equipment (bailers, augers, spoons, pans, etc.) with a non-foaming Trisodium Phosphate solution, rinsing with hot tap water, rinsing with acetone, rinsing with hot tap water again and final rinsed with distilled water. All equipment is air dried, then wrapped and stored in heavy duty aluminum foil for transport to the field. Field decontamination procedures include all of the above except the hot tap water rinse.

## 4. ANALYTICAL RESULTS

### 4.1 INTRODUCTION

This section includes the analytical results of IEPA-collected samples for TCL compounds.

### 4.2 ANALYTICAL RESULTS OF IEPA-COLLECTED SAMPLES

Chemical analysis of water samples collected by IEPA personnel revealed that there were no substances from the TCL other than common laboratory artifacts and common groundwater constituents. Chemical analysis of soil samples collected by IEPA personnel revealed the following substances from the TCL: estimated values of semi-volatiles, pesticides, heavy metals, common laboratory artifacts and common soil constituents (see Table 4-1 for the summary of groundwater and soil sample chemical analysis results). Complete laboratory analytical data of groundwater and soil sample analysis are provided in Appendix H.

Volatile analysis of the public well and monitor wells revealed that there were no contaminants present. Analysis of soils found estimated quantities in samples X102, X103 and X104. Samples X103 and X104 were also noted to have one constituent each which was above detection limits. This constituent may be lab error or attributable to building renovation (adjacent to X103) of an old Ford automotive dealership. An explanation for the result in X104 cannot be readily found other than lab error. Semi-volatile analysis of groundwater revealed that there were no contaminants present. Analysis of soils has indicated estimated quantities in samples X103 and X104. These constituents

may be attributed to the uses associated with the old Ford dealership (X103). Constituents found in X104 cannot be explained. It is unknown as to why these substances would be found at that location.

Analysis for pesticides in the groundwater also found that no contaminants were present. Pesticides were found in soil sample X103 in quantities above detection limits. Pesticides found in X104 were estimated quantities. Inorganics analysis revealed various normal quantities.

TABLE 4-1  
SUMMARY

SAMPLING POINT PARAMETER	G 101 8-2-89	G 102 8-2-89	G 103 8-2-89	G 104 8-2-89	G 501 8-2-89	BLANK 8-2-89	X 101 8-2-89	X 102 8-2-89	X 103 8-2-89	X 104 8-2-89	BLANK 8-2-89
VOLATILES (ppb)											
Chloromethane	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	--	--	--	--	--	--	--	--	--	--	--
Vinyl Chloride	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	--	--	--	--	--	--	--	--	--	--	--
Acetone	16.0 J	7.0 J	18.0 J	11.0 J	2.0 J	--	0.9 J	0.7 J	4.0 J	3.0 J	--
Carbon Disulfide	--	--	--	--	6.0 J	--	50.0 J	10.0 J	53.0	--	--
1,1-Dichloroethene	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethene(total)	--	--	--	--	--	--	--	--	--	--	--
Chloroform	--	4.0 J	0.8 J	1.0 J	--	--	--	--	--	--	--
1,2-Dichloroethane	--	--	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	10.0 R	10.0 R	10.0 R	10.0 R	10.0 R	10.0 P	11.0 P	10.0 P	11.0 P	11.0 R	10.0 P
1,1,1-Trichloroethane	--	--	--	--	--	--	--	--	--	--	--
Carbon Tetrachloride	--	--	--	--	--	--	--	--	--	--	--
Vinyl Acetate	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	--	--	--	--	--	--	--	--	--	--	--
Benzene	--	--	--	--	--	--	--	--	--	--	--
Trans-1,3-Dichloropropene	--	--	--	--	--	--	--	--	--	--	--
Bromoform	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-Pentanone	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene	--	--	--	--	--	--	--	3.0	11.0	11.0	--
Toluene	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	--	--	--	--	--	--	--	--	--	--	--
Styrene	--	--	--	--	--	--	--	--	--	--	--
Xylene(total)	--	--	--	--	--	--	--	1.0 J	4.0 J	1.0 J	--

TABLE 4-1  
 SUMMARY

SAMPLING POINT PARAMETER	G 101 8-2-89	G 102 8-2-89	G 103 8-2-89	G 104 8-2-89	G 501 8-2-89	BLANK 8-2-89	X 101 8-2-89	X 102 8-2-89	X 103 8-2-89	X 104 8-2-89	BLANK 8-2-89
SEMIVOLATILES (ppb)											
Phenol	--	--	--	--	--	--	--	--	--	--	--
bis(2-Chloroethyl) ether	--	--	--	--	--	--	--	--	--	--	--
2-Chlorophenol	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	--	--	--	--	--	--	--	--	--	--	--
Benzyl Alcohol	--	--	1.0 J	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	--	--	--	--	--	--	--	--	--	--	--
2-Methylphenol	--	--	--	--	--	--	--	--	--	--	--
bis(2-Chloroisopropyl) ether	--	--	--	--	--	--	--	--	--	--	--
4-Methylphenol	--	--	--	--	--	--	--	--	--	--	--
N-Nitroso-di-n-Propylamine	--	--	--	--	--	--	--	--	--	--	--
Hexachloroethane	--	--	--	--	--	--	--	--	--	--	--
Nitrobenzene	--	--	--	--	--	--	--	--	--	--	--
Isophorone	--	--	--	--	--	--	--	--	--	--	--
2-Nitrophenol	--	--	--	--	--	--	--	--	--	--	--
2,4-Dimethylphenol	--	--	--	--	--	--	--	--	--	--	--
Benzoic acid	--	--	--	--	--	--	--	--	--	--	--
bis(2Chloroethoxy) Methane	--	--	--	--	--	--	--	--	--	--	--
2,4-Dichlorophenol	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	--	--	--	--	--	--	--	--	34.0 J	--	--
Naphthalene	--	--	--	--	--	--	--	--	--	--	--
4-Chloroaniline	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene	--	--	--	--	--	--	--	--	--	--	--
4-Chloro-3-Methylphenol	--	--	--	--	--	--	--	--	70.0 J	--	--
2-Methylnaphthalene	--	--	--	--	--	--	--	--	--	--	--
Hexachlorocyclopentadiene	--	--	--	--	--	--	--	--	--	--	--
2,4,6-Trichlorophenol	--	--	--	--	--	--	--	--	--	--	--
2,4,5-Trichlorophenol	--	--	--	--	--	--	--	--	--	--	--
2-Chloronaphthalene	--	--	--	--	--	--	--	--	--	--	--
2-Nitroaniline	--	--	--	--	--	--	--	--	--	--	--
Dimethylphthalate	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene	--	--	--	--	--	--	--	--	--	--	--
2,6-Dinitrotoluene	--	--	--	--	--	--	--	--	--	--	--
3-Nitroaniline	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene	--	--	--	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	--	--	--	--	--	--	--	--	--	--	--

HENRY PUBLIC WELL #3  
ILO 984766394

TABLE 4-1  
SUMMARY

SAMPLING POINT PARAMETER	G 101 8-2-89	G 102 8-2-89	G 103 8-2-89	G 104 8-2-89	G 501 8-2-89	BLANK 8-2-89	X 101 8-2-89	X 102 8-2-89	X 103 8-2-89	X 104 8-2-89	BLANK 8-2-89
4-Nitrophenol	--	--	--	--	--	--	--	--	--	--	--
Dibenzofuran	--	--	--	--	--	--	--	--	--	--	--
2,4-Dinitrotoluene	--	--	--	--	--	--	--	--	--	--	--
Diethylphthalate	--	--	--	--	--	--	--	--	--	--	--
4-Chlorophenyl-phenyl ether	--	--	--	--	--	--	--	--	--	--	--
Fluorene	--	--	--	--	--	--	--	--	--	--	--
4-Nitroaniline	--	--	--	--	--	--	--	--	--	--	--
4,6-Dinitro-2-Methylphenol	--	--	--	--	--	--	--	--	--	--	--
N-Nitrosodiphenylamine	--	--	--	--	--	--	--	--	--	--	--
4-Bromophenyl-phenylether	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobenzene	--	--	--	--	--	--	--	--	--	--	--
Pentachlorophenol	--	--	--	--	--	--	--	--	210.0 J	97.0 J	--
Phenanthrene	--	--	--	--	--	--	--	--	--	--	--
Anthracene	--	--	--	--	--	--	--	--	--	--	--
Di-n-Butylphthalate	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene	--	--	--	--	--	--	--	--	300.0 J	85.0 J	--
Pyrene	--	--	--	--	--	--	--	--	580.0 J	110.0 J	--
Butylbenzylphthalate	--	--	--	--	--	--	--	--	--	--	--
3,3'-Dichlorobenzidine	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	--	--	--	--	--	--	--	--	--	--	--
Chrysene	--	--	--	--	--	--	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	--	--	--	--	--	--	--	--	--	--	--
Di-n-Octylphthalate	--	--	--	--	--	--	--	--	--	--	--
Benzo(b)fluoranthene	--	--	--	--	--	--	--	--	--	--	--
Benzo(k)fluoranthene	--	--	--	--	--	--	--	--	--	--	--
Benzo(a)pyrene	--	--	--	--	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	--	--	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	--	--	--	--	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	--	--	--	--	--	--	--	--	--	--	--

PESTICIDES (ppb)

alpha BHC	--	--	--	--	--	--	--	--	--	4.5 J	--
beta-BHC	--	--	--	--	--	--	--	--	--	--	--
delta BHC	--	--	--	--	--	--	--	--	--	--	0.6 J
gamma BHC (Lindane)	--	--	--	--	--	--	--	--	--	--	--
Heptachlor	--	--	--	--	--	--	--	--	--	--	--

TABLE 4-1  
 SUMMARY

SAMPLING POINT PARAMETER	G 101 8-2-89	G 102 8-2-89	G 103 8-2-89	G 104 8-2-89	G 501 8-2-89	BLANK 8-2-89	X 101 8-2-89	X 102 8-2-89	X 103 8-2-89	X 104 8-2-89	BLANK 8-2-89
Aldrin	--	--	--	--	--	--	--	--	38.1	--	--
Heptachlor epoxide	--	--	--	--	--	--	--	--	--	--	--
Endosulfan I	--	--	--	--	--	--	--	--	--	--	--
Dieldrin	--	--	--	--	--	--	--	--	172.2	5.6 J 11.4 J	--
4,4'-DDE	--	--	--	--	--	--	--	--	--	--	--
Endrin	--	--	--	--	--	--	--	--	--	--	--
Endosulfan II	--	--	--	--	--	--	--	--	--	--	--
4,4'-DDD	--	--	--	--	--	--	--	--	--	--	--
Endosulfan sulfate	--	--	--	--	--	--	--	--	--	--	--
4,4'-DDT	--	--	--	--	--	--	--	--	--	--	--
Methoxychlor (Mariate)	--	--	--	--	--	--	--	--	--	--	--
Endrin Ketone	--	--	--	--	--	--	--	--	--	--	--
alpha-Chlorodane	--	--	--	--	--	--	--	--	--	--	--
gamma-Chlorodane	--	--	--	--	--	--	--	--	--	--	--
Toxaphene	--	--	--	--	--	--	--	--	--	--	--
Broclor-1016	--	--	--	--	--	--	--	--	--	--	--
Broclor-1221	--	--	--	--	--	--	--	--	--	--	--
Broclor-1232	--	--	--	--	--	--	--	--	--	--	--
Broclor-1242	--	--	--	--	--	--	--	--	--	--	--
Broclor-1248	--	--	--	--	--	--	--	--	--	--	--
Broclor-1254	--	--	--	--	--	--	--	--	--	--	--
Broclor-1260	--	--	--	--	--	--	--	--	--	--	--

INORGANICS (water samples ppb....soil samples ppm)

Aluminum	78.0 U	78.0 U	78.0 U	78.0 U	78.0 U	--	9500.0	8400.0	4700.0	13000.0	--
Antimony	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	--	0.3 U	0.3 U	0.6 B	0.4 U	--
Arsenic	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	--	7.4	6.4	10.1	8.9	--
Barium	52.0 B	59.0 B	56.0 B	71.0 B	58.0 B	2.4	40.0	40.0	74.0	120.0	--
Beryllium	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	--	0.6 B	0.6 B	0.5 B	0.9	--
Cadmium	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	--	0.2 U	0.2 U	2.9	0.8 U	--
Calcium	9400.0	9600.0	8900.0	9800.0	9700.0	--	1700.0	16000.0	38000.0	6600.0	--
Chromium	4.4 B	5.0 B	3.0 B	5.6 B	5.5 B	--	13.0	21.0	14.0	17.0	--
Cobalt	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	--	6.1 B	9.4	4.2 B	8.0 B	--
Copper	1.7 U	1.7 U	2.0 U	1.7 U	4.6 U	--	16.0	17.0	27.0	20.0	--
Iron	37.0 U	37.0 U	37.0 U	37.0 U	37.0 U	--	21000.0	21600.0	12000.0	22700.0	--
Lead	6.0	2.0	2.0	4.0	4.0	--	5.4 U	9.1 U	250.0	76.0	--

HENRY PUBLIC WELL #3  
JLO 984766394

TABLE 4-1  
SUMMARY

SAMPLING POINT PARAMETER	G 101 8-2-89	G 102 8-2-89	G 103 8-2-89	G 104 8-2-89	G 501 8-2-89	BLANK 8-2-89	X 101 8-2-89	X 102 8-2-89	X 103 8-2-89	X 104 8-2-89	BLANK 8-2-89
Magnesium	39000.0	39000.0	37000.0	42000.0	40000.0	--	2200.0	11300.0	19000.0	3400.0	--
Manganese	1.2 U	1.2 U	6.7 U	3.6 U	1.2 U	--	470.0	1000.0	390.0	700.0	--
Mercury	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	--	0.0 U	0.1	0.1	0.1	--
Nickel	4.7 U	4.7 U	7.1 U	9.2 U	4.3 U	5.3	15.0	28.0	11.0	16.0	--
Potassium	3500.0 B	4400.0 B	3900.0 B	4400.0 B	4400.0 B	--	890.0 B	610.0 B	250.0 U	730.0 B	--
Selenium	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	--	0.2 U	0.2 U	0.2 U	0.2	--
Silver	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	--	0.4 U	0.4 U	0.3 U	0.4 U	--
Sodium	30000.0	24000.0	23000.0	38000.0	31000.0	--	34.0 B	120.0 B	150.0 B	76.0 B	--
Thallium	0.9 U	0.9 U	0.9 U	0.9 U	0.9 U	--	0.1 U	0.1 U	0.1 U	0.2 U	--
Vanadium	1.8 U	1.8 U	1.8 U	1.8 U	1.9 U	--	25.0	28.0	15.0	32.0	--
Zinc	16.0 B	22.0 B	13.0 B	15.0 B	66.0 B	--	46.0	58.0	340.0	176.0	--
Cyanide	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	--	0.6 U	0.5 U	0.5 U	0.6 U	--
Sulfate	58000.0	61000.0	55000.0	84000.0	56000.0	--	--	--	--	--	--
Sulfide	1000.0 U	1000.0 U	1000.0 U	1000.0 U	1000.0 U	--	--	--	--	--	--

TEMPERATURE  
SP. COND. (umhos)  
PH

56.7 58.1 58.8 58.5 56.6  
967.0 988.0 1011.0 1195.0 953.0  
7.1 7.1 7.1 7.1 7.4



## ORGANIC DATA QUALIFIERS

- U - Indicates compound was analyzed for but not detected.
- J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- C - This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B - This flag is used when the analyte is found in the associated blank as well as in the sample.
- E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. This flag will not apply to pesticide/PCB's analyzed by GC/EC methods.
- D - This flag identifies all compounds identified in an analysis at a secondary dilution factor.
- A - This flag indicates that a TIC is a suspected aldol-condensation product.
- X - Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the Sample Data Summary Package and the Case Narrative.

## INORGANIC DATA QUALIFIERS

### C (Concentration) Qualifier:

- B - Indicates the reported value is less than the Contract Required Detection Limit (CRDL) but greater than the Instrument Detection Limit (IDL).
- U - Indicates compound was analyzed for but not detected.

### Q Qualifier:

- E - The reported value is estimated because of the presence of interference.
- M - Duplicate injection precision not met.
- N - Spiked sample recovery not within control limits.
- S - The reported value was determined by the Method of Standard Additions (MSA).
- W - Post-digestion spike for Furnace AA analysis is out of control limits (85-115%), while the sample absorbance is less than 50% of spike absorbance.
- \* - Duplicate analysis not within control limits.
- + - Correlation coefficient for the MSA is less than 0.995.

### M (Method) Qualifier Enter:

- "P" for ICP
- "A" for Flame AA
- "F" for Furnace AA
- "CV" for Manual Cold Vapor AA
- "AV" for Automated Cold Vapor AA
- "AS" for Semi-Automated Spectrophotometric
- "C" for Manual Spectrophotometric
- "T" for Titrimetric
- "NR" if the analyte is not required to be analyzed.

## 5. DISCUSSION OF MIGRATION PATHWAYS

### 5.1 INTRODUCTION

This section discusses data and information that apply to potential migration pathways of TCL compounds that may affect targets and Henry Public Well #3.

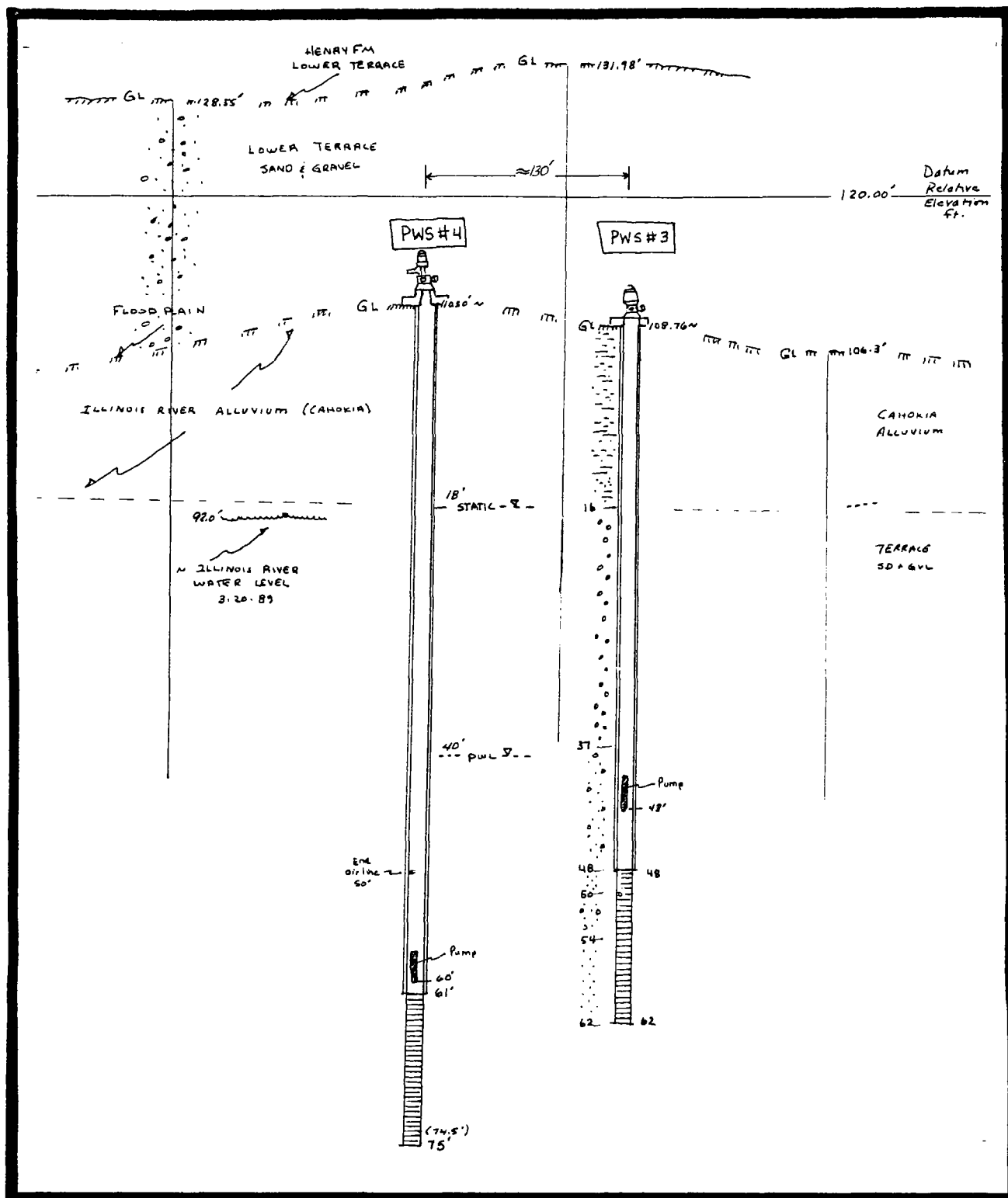
The five migration pathways of concern are groundwater, surface water, air, fire and explosion and direct contact.

### 5.2 GROUNDWATER

Groundwater samples were collected from monitor wells and public well #3 during the August 2, 1989 SSI. There exists a potential for contaminants to migrate by groundwater from the surrounding area to Henry Public Well #3. Based on three quarterly sampling events of this public well in 1988 unidentified compounds ranging from 18 ppb to 200 ppb were detected, however, sample results from the August 2, 1989 screening site inspection failed to detect any contaminants at all. This was also the case for each monitor well. Subsurface soils in the area are comprised of unconsolidated glacial and alluvial deposits. These deposits also form the area's land surface. Contaminants could be readily transported by groundwater through these deposits. Extensive deposits of sand and gravel suitable for developing municipal groundwater supplies are associated with the Illinois River Valley and the partially buried preglacial valley of the ancient Mississippi River. The uppermost bedrock throughout the area is of Pennsylvanian Age consisting mostly of shale, coal and thin interbedded layers of sandstone and limestone.

This bedrock unit dips east-southeasterly at a rate of 15 to 30 feet per mile. The sand and gravel deposits in the Henry area are approximately 160 feet deep. Henry #3 is obtaining water from a depth of 48 to 62 feet situated in the Lower Terrace of the Henry Formation in coarse sand and gravel. Above the Henry Formation Lower Terrace is the fine sand of the Illinois River Alluvium (Cahokia Alluvium). At this location the Cahokia Alluvium is approximately 16 feet in depth from land surface with the Lower Terrace deposits being approximately 144 feet in depth beyond the alluvium. Bedrock is encountered at approximately 160 feet below land surface. The top of the aquifer of concern is at a depth of approximately 18 feet. Groundwater in the vicinity of the site has been found to flow in a south-southwesterly direction based on three separate measuring events. Measurements taken over a longer time period and seasonally may determine that the direction of flow varies. The absence of contaminants at inactive Well #3 may suggest that the source is located a distance away from the natural groundwater flow gradient movements. If the source were within Well #3's cone of depression, Well #4 would most likely also be affected as it is only 130 feet away and screened from 61 feet to 75, as mentioned above (Refer to Figure 5-1). From information and data obtained during the SSI there still cannot be a determination of probable source.

The nearest well to well #3 is Henry Well #4 which is 130 feet west and is obtaining water from the same aquifer at a depth of 75 feet below land surface. This well is screened from 61 feet to 75 feet. The Henry Public Water System serves 2,740 persons. Rural residents within the 4 mile radius of Well #3 obtain water from the same Lower Terrace sand and gravel of the



SOURCE: IEPA, 1989

## PUBLIC WELL #3 & #4 CONFIGURATION

FIGURE 5-1

Henry formation as the City of Henry utilizes. There are approximately 424 rural residents using private groundwater wells and one mobile home park (Clearview MHP) using one well to serve 143 residents. The mobile home park is 2 3/4 miles southwest of Henry Well #3.

### 5.3 SURFACE WATER

No surface water samples were collected during the August 2, 1989 SSI of the Henry Public Well #3 site because of the large dilution factor of the Illinois River and that it is unlikely that contamination would make its way from the river through 62 feet of deposits and into the well. There is potential for surface water contamination, however as surface water run-off empties into streams or the Illinois River. The run-off from the areas surrounding Well #3 may flow toward the site from the north and possibly enter the sand and gravel deposits near the well. Water not running into streams, etc., would pond and either evaporate or infiltrate into the ground.

### 5.4 AIR

A release of contaminants to the air or the potential for such release was not documented during the SSI of the Henry Public Well site. During the screening site inspection, a photo-ionization detector with an 11.7 lamp was utilized. No readings were recorded over background levels.

### 5.5 FIRE AND EXPLOSION

No fire and/or explosion threat was documented during the SSI of the Henry Public Well #3.

## 5.6 DIRECT CONTACT

According to all available file information, and interviews with site representatives, there is no documented incident of human injury as the result of this site.

The main route of exposure to the population at risk appears to be due to ingestion of the contaminated water and, on a lesser scale, the inhalation of the contaminant as it volatilizes off the water. No access restrictions are present at this site other than the brick well houses which are locked. Shallow soil samples collected during the August 2, 1989 SSI failed to detect any significant contamination.

The volatilization of chemicals from the indoor uses of water can be a substantial source of exposure.

## 6. BIBLIOGRAPHY

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APPENDIX A

SITE 4-MILE RADIUS MAP

# SDMS US EPA Region V

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APPENDIX B

SITE 15-MILE STREAM MAP

# SDMS US EPA Region V

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## APPENDIX C

U. S. EPA FORM 2070-13



# Site Inspection Report



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
1LD 984766394

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) HENRY PUBLIC WELL #3		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER CORNER CRAWWELL & EDWARDS			
03 CITY HENRY		04 STATE IL	05 ZIP CODE 61537	06 COUNTY MARSHALL	07 COUNTY CODE 123
08 COORDINATES LATITUDE 41 06 33.0 LONGITUDE 089 21 15.0		10 TYPE OF OWNERSHIP (Check one) <input type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input checked="" type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER <input type="checkbox"/> G. UNKNOWN			

III. INSPECTION INFORMATION

01 DATE OF INSPECTION 8.2.89 MONTH DAY YEAR	02 SITE STATUS <input checked="" type="checkbox"/> ACTIVE <input type="checkbox"/> INACTIVE	03 YEARS OF OPERATION 1936 PRESENTLY ON STANDBY BEGINNING YEAR ENDING YEAR	
04 AGENCY PERFORMING INSPECTION (Check all that apply) <input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input type="checkbox"/> C. MUNICIPAL <input type="checkbox"/> D. MUNICIPAL CONTRACTOR <input checked="" type="checkbox"/> E. STATE <input type="checkbox"/> F. STATE CONTRACTOR <input type="checkbox"/> G. OTHER			

05 CHIEF INSPECTOR KENNETH W. CORKILL	06 TITLE EPS III	07 ORGANIZATION RPM S	08 TELEPHONE NO. 217782-6760
09 OTHER INSPECTORS GREG DUNN	10 TITLE EPS II	11 ORGANIZATION RPM S	12 TELEPHONE NO. 217782-6760
GARY RESIDE	EPS I	RPM S	217782-6760
			( )
			( )
			( )
13 SITE REPRESENTATIVES INTERVIEWED TOM MAUBACH	14 TITLE WATER SUPER.	15 ADDRESS CITY HALL 426 E. PARK, HENRY, IL.	16 TELEPHONE NO. 309364-3056
			( )
			( )
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one) <input checked="" type="checkbox"/> PERMISSION <input type="checkbox"/> WARRANT	18 TIME OF INSPECTION 8:00 AM	19 WEATHER CONDITIONS SUNNY - HOT - 92°F - WIND NE @ 2-5 MPH
--	----------------------------------	---

IV. INFORMATION AVAILABLE FROM

01 CONTACT KENNETH W. CORKILL	02 OF (Agency/Organization) IEPA - RPM S	03 TELEPHONE NO. 217782-6760
04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM KENNETH W. CORKILL	05 AGENCY IEPA	06 ORGANIZATION RPM S
	07 TELEPHONE NO. (217)782-6760	08 DATE 9.25.89 MONTH DAY YEAR



☐ I. HIGHLY VOLATILE  
☐ J. EXPLOSIVE  
☐ K. REACTIVE  
☐ L. INCOMPATIBLE  
☐ M. NOT APPLICABLE





POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
1LD 984766394

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☒ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: 3310 04 NARRATIVE DESCRIPTION  
POSSIBLE CONTAMINATION TO GROUNDWATER. PW #3 HAD BEEN REPORTING UNIDENTIFIED COMPOUNDS ON 3 SUCCESSIVE SAMPLES PRIOR TO IT BEING SHUT DOWN. 18ppb-200 ppb. CONCENTRATIONS WERE FOUND. THE SSI FOUND NO CONTAMINANTS IN THE PUBLIC WELL OR THE 4 MONITOR WELLS. ONLY CONTAMINANTS FOUND WERE IN 2 SOILS. ONE NEAR THE PUBLIC WELL & ONE MONITOR WELL & THE OTHER 1,000 FT AWAY.

01 ☒ B. SURFACE WATER CONTAMINATION 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☒ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: 0 04 NARRATIVE DESCRIPTION  
RUN OFF FROM THE LAND ON EITHER SIDE OF THE ILLINOIS RIVER MAY CARRY CONTAMINATION, HOWEVER NO SOURCE OF ANY IS KNOWN. SURFACE WATER IS USED FOR RECREATIONAL PURPOSES BUT NOT FOR A DRINKING WATER SUPPLY.

01 ☐ C. CONTAMINATION OF AIR 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_ 04 NARRATIVE DESCRIPTION

N/A

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_ 04 NARRATIVE DESCRIPTION

N/A

01 ☒ E. DIRECT CONTACT 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☒ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: 2740 04 NARRATIVE DESCRIPTION  
ANY CONTAMINATION IN THE DRINKING WATER SUPPLY WOULD BE DISTRIBUTED THROUGH OUT THE SYSTEM. INGESTION & INHALATION OF ANY VOLATILE IS POSSIBLE.

01 ☒ F. CONTAMINATION OF SOIL 02 ☒ OBSERVED (DATE: 8-2-89) ☒ POTENTIAL ☐ ALLEGED  
03 AREA POTENTIALLY AFFECTED: <1/4 (ACRES) 04 NARRATIVE DESCRIPTION  
CONTAMINATION HAS BEEN FOUND IN TWO SOIL SAMPLES IN LOW PARTS PER BILLION.

01 ☒ G. DRINKING WATER CONTAMINATION 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☒ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: 3310 04 NARRATIVE DESCRIPTION  
DRINKING WATER FROM GROUNDWATER IS OBTAINED BY RURAL RESIDENTS, THE CITY OF HENRY & 2 MOBILE HOME PARKS (CLEARVIEW & CRESCENT MOBILE ESTATES MHP). SEE "A" & "B" FOR ADDITIONAL INFORMATION.

01 ☐ H. WORKER EXPOSURE/INJURY 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED  
03 WORKERS POTENTIALLY AFFECTED: \_\_\_\_\_ 04 NARRATIVE DESCRIPTION

N/A

01 ☐ I. POPULATION EXPOSURE/INJURY 02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED  
03 POPULATION POTENTIALLY AFFECTED: \_\_\_\_\_ 04 NARRATIVE DESCRIPTION

N/A



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION  
01 STATE 02 SITE NUMBER  
12D 984766394

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA  
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED

N/A

01 ☐ K. DAMAGE TO FAUNA  
04 NARRATIVE DESCRIPTION (include name(s) of species)

02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED

N/A

01 ☐ L. CONTAMINATION OF FOOD CHAIN  
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED

N/A

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES  
(Spills/Runoff/Standing liquids, Leaking drums)

02 ☒ OBSERVED (DATE: 8-2-89) ☐ POTENTIAL ☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: 3310  
SUBSTANCE FOUND IN SOIL SAMPLE WHERE IT WAS FOUND.

04 NARRATIVE DESCRIPTION  
HAS SPILLED OR RUN-OFF FROM THE BUILDING NEAR POSSIBLY

01 ☐ N. DAMAGE TO OFFSITE PROPERTY  
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED

N/A

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs  
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED

N/A

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING  
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: \_\_\_\_\_) ☐ POTENTIAL ☐ ALLEGED

N/A

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

N/A

III. TOTAL POPULATION POTENTIALLY AFFECTED: 3310

IV. COMMENTS

N/A

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

REFERENCE PART 2 - VII



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION  
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
14D 984766394

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
<input type="checkbox"/> A. NPDES				
<input type="checkbox"/> B. UIC				
<input type="checkbox"/> C. AIR				
<input type="checkbox"/> D. RCRA				
<input type="checkbox"/> E. RCRA INTERIM STATUS				
<input type="checkbox"/> F. SPCC PLAN				
<input type="checkbox"/> G. STATE (Specify)				
<input type="checkbox"/> H. LOCAL (Specify)				
<input type="checkbox"/> I. OTHER (Specify)				
<input checked="" type="checkbox"/> J. NONE				

III. SITE DESCRIPTION

01 STORAGE/ DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT (Check all that apply)	05 OTHER
<input type="checkbox"/> A. SURFACE IMPOUNDMENT			<input type="checkbox"/> A. INCENERATION	<input checked="" type="checkbox"/> A. BUILDINGS ON SITE
<input type="checkbox"/> B. PILES			<input type="checkbox"/> B. UNDERGROUND INJECTION	
<input type="checkbox"/> C. DRUMS, ABOVE GROUND			<input type="checkbox"/> C. CHEMICAL/PHYSICAL	
<input type="checkbox"/> D. TANK, ABOVE GROUND			<input type="checkbox"/> D. BIOLOGICAL	
<input type="checkbox"/> E. TANK, BELOW GROUND			<input type="checkbox"/> E. WASTE OIL PROCESSING	
<input type="checkbox"/> F. LANDFILL			<input type="checkbox"/> F. SOLVENT RECOVERY	
<input type="checkbox"/> G. LANDFARM			<input type="checkbox"/> G. OTHER RECYCLING/RECOVERY	
<input type="checkbox"/> H. OPEN DUMP			<input type="checkbox"/> H. OTHER (Specify)	
<input type="checkbox"/> I. OTHER <u>UNKNOWN BUT ASSUMING DRUMMED</u> (Specify) <u>WASTE.</u>			<u>NONE</u>	

07 COMMENTS

N/A

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☐ A. ADEQUATE, SECURE ☒ B. MODERATE ☐ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

SOURCE OF CONTAMINATION IS UNKNOWN NO CONTAINMENT CAN BE ACCURATELY DETERMINED, HOWEVER, BECAUSE CONTAM. WAS FOUND A MODERATE RANKING WILL BE GIVEN.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☐ YES ☒ NO

02 COMMENTS

CONTAMINANTS WERE FOUND AT 3.0 FEET IN DEPTH. SOURCE IS NOT KNOWN.

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

REFERENCE PART 2-VI



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
1LD 984766394

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY  
(Check as applicable)

SURFACE WELL  
COMMUNITY A. ☐ B. ☒  
NON-COMMUNITY C. ☐ D. ☒

02 STATUS

ENDANGERED AFFECTED MONITORED  
A. ☐ B. ☐ C. ☒  
D. ☐ E. ☐ F. ☐

03 DISTANCE TO SITE

A. 0 (mi)  
B. 1.5 (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☒ A. ONLY SOURCE FOR DRINKING ☐ B. DRINKING  
(Other sources available)  
COMMERCIAL, INDUSTRIAL, IRRIGATION  
(No other water sources available)  
☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION  
(Limited other sources available)  
☐ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER 3310

03 DISTANCE TO NEAREST DRINKING WATER WELL 0 (mi)

04 DEPTH TO GROUNDWATER  
18 (ft)

05 DIRECTION OF GROUNDWATER FLOW  
SOUTH-SOUTHWEST

06 DEPTH TO AQUIFER  
OF CONCERN 18 (ft)

07 POTENTIAL YIELD  
OF AQUIFER UNKNOWN (gpd)

08 SOLE SOURCE AQUIFER  
☒ YES ☐ NO

09 DESCRIPTION OF WELLS (including usage, depth, and location relative to population and buildings)

HENRY PUBLIC WELLS 3, 4 & 5 SERVE HENRY (2740 PERSONS) #3 IS 62' DEEP FROM LAND SURFACE.  
#4 IS 75' DEEP & #5 IS 147 FEET DEEP. WELLS 3 & 4 ARE 200 FEET NORTH OF THE ILLINOIS  
RIVER. #5 IS 1.33 MILES NORTHWEST OF #3 & #4. RURAL WELLS ARE SPREAD THROUGHOUT THE  
4-MILE RADIUS & RANGE IN DEPTH FROM 25' TO 150'. 2 TRAILER PARKS OBTAIN WATER FROM  
THE SAME AQUIFER AS HENRY. ONE SOUTHWEST & ONE NORTH OF HENRY.

10 RECHARGE AREA

☒ YES COMMENTS DEPENDS ON AREA  
☐ NO GROUNDWATER LEVELS

11 DISCHARGE AREA

☒ YES COMMENTS DEPENDS ON AREA  
☐ NO GROUNDWATER LEVELS

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☒ A. RESERVOIR, RECREATION  
DRINKING WATER SOURCE ☐ B. IRRIGATION, ECONOMICALLY  
IMPORTANT RESOURCES ☐ C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME: ILLINOIS RIVER  
AFFECTED DISTANCE TO SITE  
200 FT (mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE TWO (2) MILES OF SITE THREE (3) MILES OF SITE  
A. 2740 B. 2872 C. 3158  
NO. OF PERSONS NO. OF PERSONS NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION

200 FT (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE

1100

04 DISTANCE TO NEAREST OFF-SITE BUILDING

200 FT (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

THE PUBLIC WELL IS LOCATED NEAR THE DOWNTOWN AREA OF HENRY WHICH IS URBAN.  
THE SITE AREA CAN BE BROKEN DOWN AS URBAN WITHIN THE ONE MILE RADIUS  
FROM THE SITE & RURAL THERE AFTER.



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION  
01 STATE 02 SITE NUMBER  
14D 984766394

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A.  $10^{-6}$  -  $10^{-8}$  cm/sec ☐ B.  $10^{-4}$  -  $10^{-6}$  cm/sec ☒ C.  $10^{-4}$  -  $10^{-3}$  cm/sec ☐ D. GREATER THAN  $10^{-3}$  cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE (Less than  $10^{-9}$  cm/sec) ☒ B. RELATIVELY IMPERMEABLE ( $10^{-4}$  -  $10^{-6}$  cm/sec) ☐ C. RELATIVELY PERMEABLE ( $10^{-2}$  -  $10^{-4}$  cm/sec) ☐ D. VERY PERMEABLE (Greater than  $10^{-2}$  cm/sec)

03 DEPTH TO BEDROCK

160 (ft)

04 DEPTH OF CONTAMINATED SOIL ZONE

3.0 (ft)

05 SOIL pH

5.0-6.0

06 NET PRECIPITATION

1.0 (in)

07 ONE YEAR 24 HOUR RAINFALL

2.6 (in)

08 SLOPE SITE SLOPE

5 %

DIRECTION OF SITE SLOPE

SOUTHEAST

TERRAIN AVERAGE SLOPE

<3 %

09 FLOOD POTENTIAL

SITE IS IN 25 YEAR FLOODPLAIN

10

☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE

OTHER

A. (mi)

B. .4 (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

N/A (mi)

ENDANGERED SPECIES:

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL

RESIDENTIAL AREAS; NATIONAL/STATE PARKS,  
FORESTS, OR WILDLIFE RESERVES

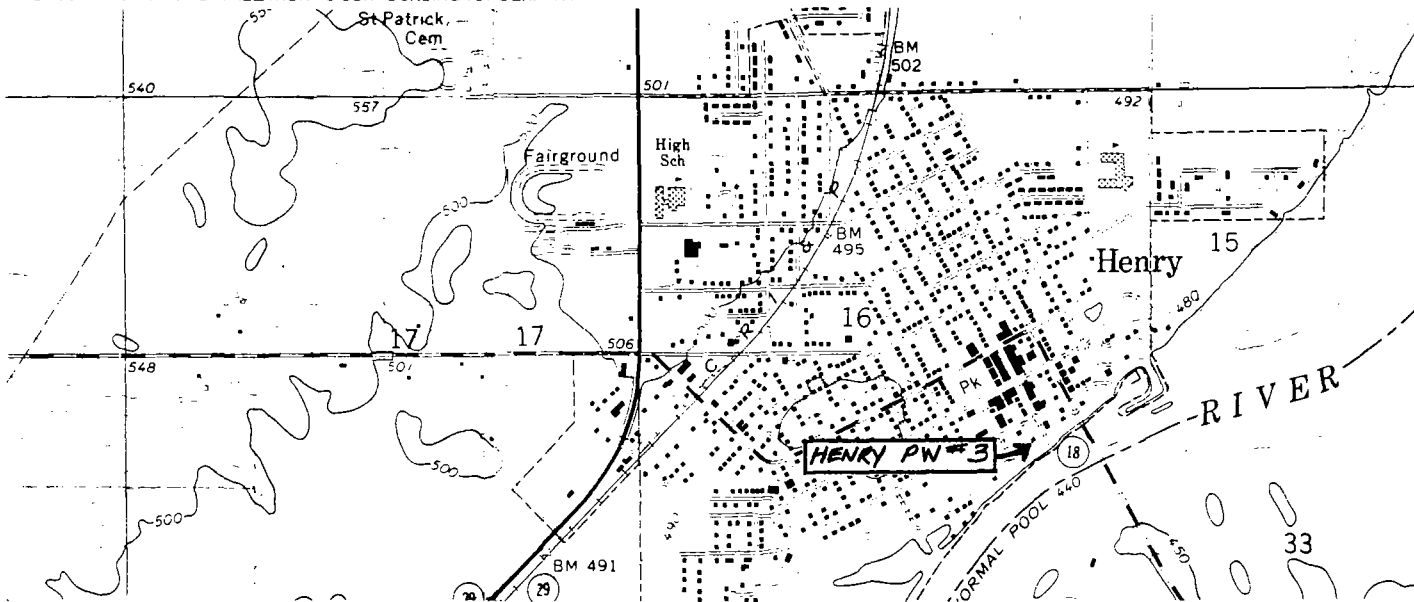
AGRICULTURAL LANDS  
PRIME AG LAND AG LAND

A. .125 (mi)

B. 200 FT (mi)

C. .75 (mi) D. .75 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY



VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

REFERENCE PART 2 - IV  
ISWS - BULLETIN 60-18  
IEPA - GROUNDWATER WITHDRAWALS FROM AQUIFERS IN ILLINOIS



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
14D 984766394

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER	5	ORGANIC - SPRINGFIELD IEPA LAB INORGANIC - CHAMPAIGN IEPA LAB	9-20-89
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL	4	SAME	9-20-89
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
HNU	MONITORING AT EACH SAMPLE LOCATION. NO READINGS ABOVE BACKGROUND.
PH	} FOR WATER SAMPLES
CONDUCTIVITY	
TEMPERATURE	

IV. PHOTOGRAPHS AND MAPS

01 TYPE <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> AERIAL	02 IN CUSTODY OF ILLINOIS EPA <small>(Name of organization or individual)</small>
03 MAPS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	04 LOCATION OF MAPS 2200 CHURCHILL ROAD, SPRINGFIELD, IL. 62794

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

N/A

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

REFERENCE PART 2 - VII



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 7 - OWNER INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
14D 984766394

II. CURRENT OWNER(S)				PARENT COMPANY (If applicable)			
01 NAME CITY OF HENRY		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 426 EAST PARK		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY HENRY		06 STATE IL	07 ZIP CODE 61537	12 CITY		13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	12 CITY		13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	12 CITY		13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER		08 NAME		09 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	12 CITY		13 STATE	14 ZIP CODE
III. PREVIOUS OWNER(S) (List most recent first)				IV. REALTY OWNER(S) (If applicable; list most recent first)			
01 NAME N/A		02 D+B NUMBER		01 NAME N/A		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	05 CITY		06 STATE	07 ZIP CODE
01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	05 CITY		06 STATE	07 ZIP CODE
01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	05 CITY		06 STATE	07 ZIP CODE
V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analyses, reports)							
REFERENCE PART 2 - VI							



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
140 984766394

II. CURRENT OPERATOR (Provide if different from owner)

OPERATOR'S PARENT COMPANY (If applicable)

01 NAME CITY OF HENRY	02 D+B NUMBER	10 NAME N/A	11 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE		
05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION 53	09 NAME OF OWNER CITY OF HENRY				

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

01 NAME N/A	02 D+B NUMBER	10 NAME N/A	11 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE		
05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD				
01 NAME	02 D+B NUMBER	10 NAME	11 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE		
05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD				
01 NAME	02 D+B NUMBER	10 NAME	11 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE		
05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD				

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

REFERENCE PART 2-VI





POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
14D	984766394

II. ON-SITE GENERATOR

01 NAME N/A	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE

III. OFF-SITE GENERATOR(S)

01 NAME N/A	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME N/A	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

N/A



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE 02 SITE NUMBER  
12D 984766394

II. PAST RESPONSE ACTIVITIES

01 ☒ A. WATER SUPPLY CLOSED 02 DATE OCT 88 03 AGENCY CITY OF HENRY  
04 DESCRIPTION WELL #3 WAS TAKEN OFF LINE BECAUSE OF THE UNIDENTIFIED COMPOUNDS FOUND. #3 IS USED AS A STANDBY AT PRESENT. SAMPLE RESULTS FROM 8-2-89 HAVE REVEALED NO CONTAMINATION HOWEVER. WELLS #4 & #5 SUPPLY AMPLE WATER FOR HENRY.

01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED 02 DATE \_\_\_\_\_ 03 AGENCY \_\_\_\_\_  
04 DESCRIPTION N/A

01 ☐ C. PERMANENT WATER SUPPLY PROVIDED 02 DATE \_\_\_\_\_ 03 AGENCY \_\_\_\_\_  
04 DESCRIPTION

01 ☐ D. SPILLED MATERIAL REMOVED 02 DATE \_\_\_\_\_ 03 AGENCY \_\_\_\_\_  
04 DESCRIPTION

01 ☐ E. CONTAMINATED SOIL REMOVED 02 DATE \_\_\_\_\_ 03 AGENCY \_\_\_\_\_  
04 DESCRIPTION

01 ☐ F. WASTE REPACKAGED 02 DATE \_\_\_\_\_ 03 AGENCY \_\_\_\_\_  
04 DESCRIPTION

01 ☐ G. WASTE DISPOSED ELSEWHERE 02 DATE \_\_\_\_\_ 03 AGENCY \_\_\_\_\_  
04 DESCRIPTION

01 ☐ H. ON SITE BURIAL 02 DATE \_\_\_\_\_ 03 AGENCY \_\_\_\_\_  
04 DESCRIPTION

01 ☐ I. IN SITU CHEMICAL TREATMENT 02 DATE \_\_\_\_\_ 03 AGENCY \_\_\_\_\_  
04 DESCRIPTION

01 ☐ J. IN SITU BIOLOGICAL TREATMENT 02 DATE \_\_\_\_\_ 03 AGENCY \_\_\_\_\_  
04 DESCRIPTION

01 ☐ K. IN SITU PHYSICAL TREATMENT 02 DATE \_\_\_\_\_ 03 AGENCY \_\_\_\_\_  
04 DESCRIPTION

01 ☐ L. ENCAPSULATION 02 DATE \_\_\_\_\_ 03 AGENCY \_\_\_\_\_  
04 DESCRIPTION

01 ☐ M. EMERGENCY WASTE TREATMENT 02 DATE \_\_\_\_\_ 03 AGENCY \_\_\_\_\_  
04 DESCRIPTION

01 ☐ N. CUTOFF WALLS 02 DATE \_\_\_\_\_ 03 AGENCY \_\_\_\_\_  
04 DESCRIPTION

01 ☐ O. EMERGENCY DIKING/SURFACE WATER DIVERSION 02 DATE \_\_\_\_\_ 03 AGENCY \_\_\_\_\_  
04 DESCRIPTION

01 ☐ P. CUTOFF TRENCHES/SUMP 02 DATE \_\_\_\_\_ 03 AGENCY \_\_\_\_\_  
04 DESCRIPTION

01 ☐ Q. SUBSURFACE CUTOFF WALL 02 DATE \_\_\_\_\_ 03 AGENCY \_\_\_\_\_  
04 DESCRIPTION



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

14D 984766394

II. PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

N/A

01 ☐ S. CAPPING/COVERING  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01 ☐ T. BULK TANKAGE REPAIRED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01 ☐ U. GROUT CURTAIN CONSTRUCTED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01 ☐ V. BOTTOM SEALED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01 ☐ W. GAS CONTROL  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01 ☐ X. FIRE CONTROL  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01 ☐ Y. LEACHATE TREATMENT  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01 ☐ Z. AREA EVACUATED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01 ☐ 1. ACCESS TO SITE RESTRICTED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01 ☐ 2. POPULATION RELOCATED  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

01 ☐ 3. OTHER REMEDIAL ACTIVITIES  
04 DESCRIPTION

02 DATE \_\_\_\_\_

03 AGENCY \_\_\_\_\_

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

REFERENCE PART 2 - VI



POTENTIAL HAZARDOUS WASTE SITE  
SITE INSPECTION REPORT  
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

1LD 984766394

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ☒ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

N/A

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis reports)

APPENDIX D  
MONITOR WELL INSTALLATION LOGS



DATE: 7-18-89

TO: Ken Corkil

FROM: Doug Tolan

SUBJECT: Drilling @ Henry, Ill. (P.A.S.I.)

7-11-89

(Described by auger cuttings)

G 101 (7:15 A.M.) 0°-2° Gravelly Sand Gray Brown2°-4° Sand Tan Fine to medium grained

4°-13° " Brown Tan " " " "

13°-25° Clayey Gravelly Sand Tan-Brown V. moist

25°-30° "Same" trickle of water in open auger

30°-35° " Very Wet cuttings

Boring complete to 35° ft. No OVA readings.

CME 75  
 3 3/4 inch hollow stem  
 auger with knockout  
 plate

# 304 Stainless Steel Casing (Mathews Transfer)

0.04 Bottom of Screen

5.04 Top of Screen

5.13 Screen Joint

10.04 "

10.03 "

10.04 "

1.91

37.15 Total length of Casing 2 1/2 ft Stick-up

Pulled augers and backfilled

Natural slough to 15° ft From ground-level

25 lbs. bentonite pellets approximately 1 foot - hydrated with water in hole.

Grouted to surface with 4 1/2 bags of cement and 4 1/2 bags of silica sand and granular bentonite (7 lbs.)

Development7-12-89 (1:25 P.M.) water level 16 <sup>58</sup> ft. T.O.C. Bailed 50 gallons very silty clayey & sandy beginning to slightly clean up.

7-13-89 (7:30 A.M.) Bailed 56 gallons - it is cleaning up - still cloudy.

7-11-89

G 102

(2:25 P.M.)

0° - 7°

7° - 14°

14° - 30°

(Described from auger cuttings)

Silty Clayey Topsoil Gray-Brown

Gravelly Sand Tan Brown moist  
w/ silt throughout.

Sand Brown V. moist fine to  
medium grained w/ gravel throughout  
water in auger @ 20° ft. very  
wet 25° ft. to 30° ft.

CME - 75  
3 3/4 inch hollow stem  
auger with knockout  
plate

Boring Complete to 30° ft. No OVA readings

#304 2 inch Stainless Steel (Mathews Transfer)

0.52 Bottom of Screen (drive cone)

5.52 Top of Screen

5.65 Screen Joint

10.03

10.03

4.99

1.90

32.60 Total Length of casing

3° 05 ft Stick-up.

Pulled augers and backfilled

Natural Slough to 11° ft. from ground level. 25 lbs.  
bentonite pellets - hydrated with 3 gallons of water.

Grouted with 5 bags of cement and 5 bags of silica  
sand with 8 lbs. granular bentonite.

Development

7-12-89 (1:35 P.M.) 14° 77 ft. from T.O.C. (water level) 50 gallons  
bailed out very silty, clayey, & sandy cleaned up some.

7-13-89 (11:30 A.M.) 23 gallons bailed (began to rain) well is  
cleaning up however very cloudy needs more work.

7-12-89

(Described by auger cuttings)

G 103 (7:50 A.M.)

0° - 1°

Silty (Topsoil) Gray

1° - 2°

Sand Gray, brown, red

2° - 15°

Clayey Silt (Topsoil) Black gravel + sand throughout

15° - 20°

Sand Tan, Brown moist fine to medium grained with gravel throughout

20° - 35°

Silty Clayey Sand Tan - Dk. Brown V. moist fine to medium grained w/ gravel throughout

35° - 45°

Sand Golden V. moist fine to medium grained with gravel throughout

45° - 60°

Sand Brown - Tan V. moist fine to medium grained w/ larger gravel throughout water in hole @ 50 ft.

Boring Complete to 60° Ft. No OVA readings.

#304 2" Stainless Steel (Mathews Transfer)

0.53 Bottom Screen

5.53 Top Screen

5.66 Screen Joint

10.02

10.03

10.02

10.02

4.98

4.98

4.98

1.88

62.57 Total length of casing 2<sup>06</sup> Ft. Stick-up

Pulled augers and back filled

Natural slough to 30° Ft. From ground level. - 50 lb. bags of silica sand to 20° Ft., 50 lbs. bentonite pellets to 18° Ft. Hydrated pellets with 5 gallons of water. Grouted well from 18° Ft. to ground level, 6 bags cement & 6 bags silica sand 10 lbs. granular bentonite.

Development

7-13-89 (8:25 A.M.) 38<sup>51</sup> Ft. From T.O.C.; 30 gallons bailed. Very silty and sandy but cleaned up quickly. Very slight cloudiness. page 4 of 6



7-11-89

(Described by auger cuttings)

G-104 9:35 A.M.

0<sup>2</sup> - 5<sup>2</sup>

Sand Gravel Bricks Tree roots and wood pieces (Fill material)

5<sup>0</sup> - 10<sup>2</sup>

Sandy (fill) Redish lots of Brick  
No OVA Readings (Strange odor)

10<sup>2</sup> - 15<sup>2</sup>

Silty Clayey Sand with gravel Tan-brown  
fine to medium grained slightly moist

15<sup>2</sup> - 20<sup>2</sup>

"Same"

20<sup>2</sup> - 25<sup>2</sup>

"

25<sup>2</sup> - 30<sup>2</sup>

"

moist

30<sup>2</sup> - 35<sup>2</sup>

"

"

35<sup>2</sup> - 50<sup>2</sup>

"

"

50<sup>2</sup> - 55<sup>2</sup>

"

"

Water in augers

55<sup>2</sup> - 60<sup>2</sup>

"

V. moist cuttings

60<sup>2</sup> - 65<sup>2</sup>

"

"

"

"

Boring Complete @ 65<sup>0</sup> ft. No OVA readings.

#304 2" Stainless Steel Casing (Mathews Transfer)

0.04 Bottom Screen

5.05 Top Screen

5.14 Screen Joint

10.04

10.04

10.07

10.04

10.05

10.04

1.91

67.33 Total length of Casing 3<sup>25</sup> ft. Stick-up.

Pulled augers and backfilled

Natural slough to 41<sup>0</sup> ft.. 19-50 lb. bags of #4 Flint shot silica sand to 19<sup>5</sup> ft from ground level. 50 lbs. bentonite pellets 19<sup>5</sup> to 16<sup>2</sup> - hydrated with 5 gallons of water; 10 minutes later 5 more gallons of water. Grouted with 4 bags of cement and 4 bags of silica sand 6 lbs. granular bentonite, to surface.

Development

7-12-89 1:45 P.M. 43<sup>38</sup> ft From T.O.C. 20 gallons bailed - slightly silty and sandy cleaning up very well.

7-13-89 7:42 A.M. 5 gallons bailed - clean - well developed

page 2 of 6

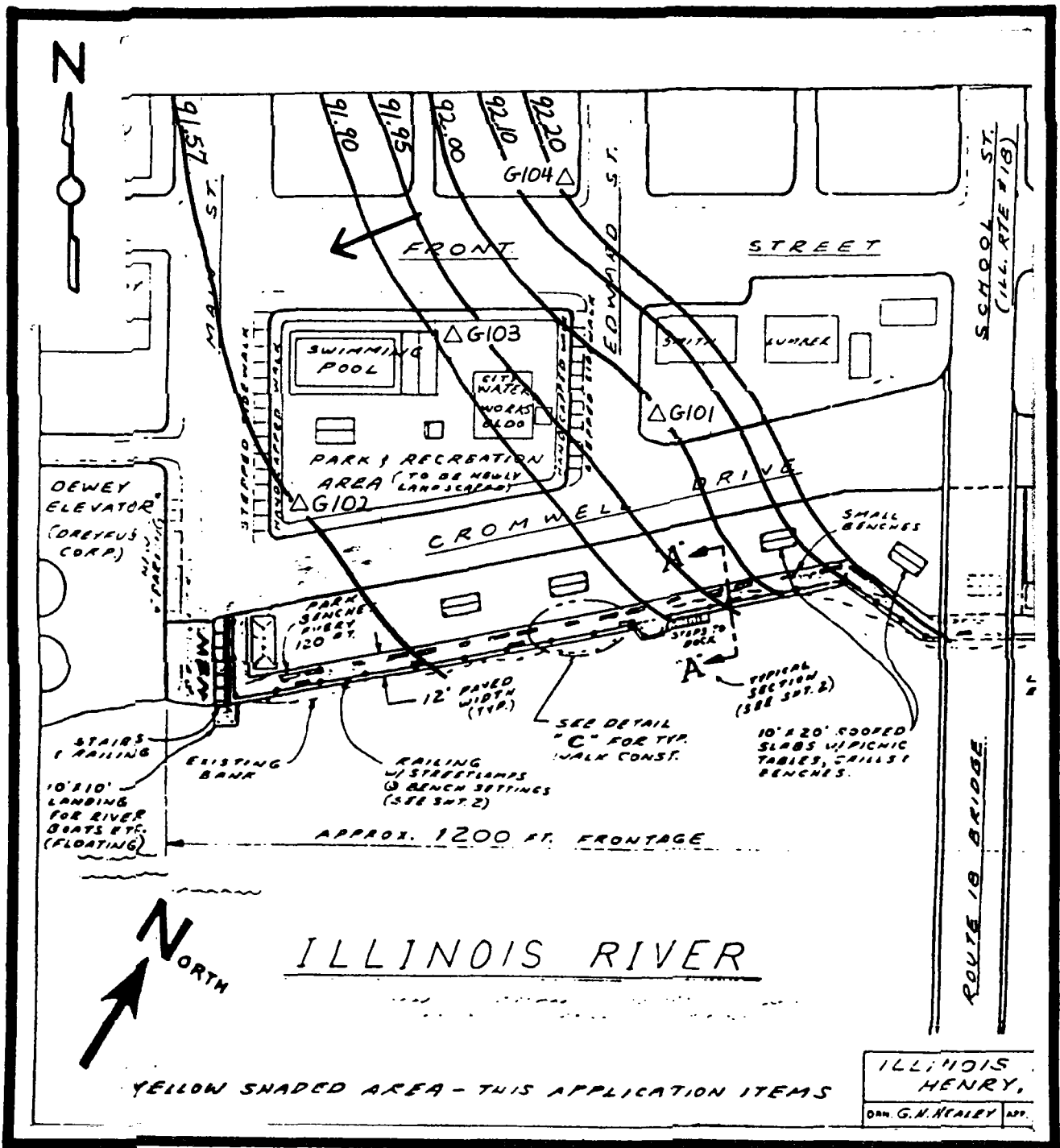
Henry (P.A.S.I.) 7-12-89	Cloudy - Overcast B.S.	Humid - Nice F.S.	Rod - Elev	R. Irwin D. Tolan
B.M.	7.35		100.00	Railroad spike in
TP #1	3.51	2.05	105.30	power pole nearest
G101 (TP#2)	13.04	0.24	108.57	boat landing @ Henry
TP #3	14.66	0.06	121.55	Harbour
G104		0.62	135.59	
G103 (TP#4)	0.35	5.47	130.74	
TP #5	0.06	13.08	118.01	
G102 (TP#6)	1.12	11.73	106.34	
TP #7	5.78	3.87	103.59	
TP #8	2.04	5.17	104.20	
B.M.		6.25	99.99	
	47.91	47.92		

Survey A.O.K. checked by  
D. Tolan 7-13-89

B.M. 4.36 104.36 100.00  
Water level 13.52 90.84 nearest B.M.  
on river

Finished Survey @ 11:45 A.M.

APPENDIX E  
GROUNDWATER MEASUREMENTS AND FLOW DIAGRAMS



SOURCE: IEPA, 1989

GROUNDWATER  
ELEVATIONS  
↓  
FLOW DIRECTIONS

APPENDIX F  
TARGET COMPOUND LIST

TARGET COMPOUND LIST

Volatile Target Compounds

Compound	Water CRDL	Soil/Solid CRDL
1. chloromethane	10 ug/l	10 ug/kg
2. bromomethane	10	10
3. vinyl chloride	10	10
4. chloroethane	10	10
5. methylene chloride	5	5
6. acetone	10	10
7. carbon disulfide	5	5
8. 1,1-dichloroethene	5	5
9. 1,1-dichloroethane	5	5
10. t-1,2-dichloroethene	5	5
11. 1,2-dichloropropane	5	5
12. chloroform	5	5
13. 1,2-dichloroethane	5	5
14. 2-butanone	10	10
15. 1,1,1-trichloroethane	5	5
16. carbon tetrachloride	5	5
17. vinyl acetate	10	10
18. dichlorobromomethane	5	5
19. c-1,3-dichloropropene	5	5
20. trichloroethene	5	5
21. benzene	5	5
22. chlorodibromomethane	5	5
23. 1,1,2-trichloroethane	5	5
24. t-1,3-dichloropropene	5	5
25. 2-chloroethyl vinyl ether	10	10
26. bromoform	5	5
27. 2-hexanone	10	10
28. 4-methyl-2-pentanone	10	10
29. 1,1,2,2-tetrachloroethane	5	5
30. tetrachloroethene	5	5
31. toluene	5	5
32. chlorobenzene	5	5
33. ethylbenzene	5	5
34. styrene	5	5
35. total xylenes	15	15

CRDL - Contract Required Detection Limit

# Base/Neutral Target Compounds

Compound	Water CRDL	Soil/Solid CRDL
1. Hexachloroethane	10 ug/l	330 ug/kg
2. Bis (2-chloroethyl) ether	10	330
3. Benzyl Alcohol	10	330
4. Bis (2-chloroisopropyl) ether	10	330
5. N-nitrosodi-n-propylamine	10	330
6. Nitrobenzene	10	330
7. Hexachlorobutadiene	10	330
8. 2-Methylnaphthalene	10	330
9. 1,2,4-trichlorobenzene	10	330
10. Isophorone	10	330
11. Naphthalene	10	330
12. 4-Chloroaniline	10	330
13. Bis (2-chloroethoxy) methane	10	330
14. Hexachlorocyclopentadiene	10	330
15. 2-chloronaphthalene	10	330
16. 2-Nitroaniline	50	1600
17. Acenaphthylene	10	330
18. 3-Nitroaniline	50	1600
19. Acenaphthene	10	330
20. Dibenzofuran	10	330
21. Dimethylphthalate	10	330
22. 2,6-Dinitrotoluene	10	330
23. Fluorene	10	330
24. 4-Nitroaniline	50	1600
25. 4-Chlorophenyl-phenyl ether	10	330
26. 2,4-Dinitrotoluene	10	330
27. Diethylphthalate	10	330
28. N-Nitrosodiphenylamine	10	330
29. Hexachlorobenzene	10	330
30. Phenanthrene	10	330
31. 4-Bromophenyl-phenyl ether	10	330
32. Anthracene	10	330
33. Dibutylphthalate	10	330
34. Fluoranthene	10	330
35. Pyrene	10	330
36. Butyl benzyl phthalate	10	330
37. Bis (2-ethylhexyl) phthalate	10	330
38. Chrysene	10	330
39. Benzo (a) anthracene	10	330
40. 3,3'-Dichlorobenzidene	20	660
41. Di-n-octyl phthalate	10	330
42. Benzo (b) fluoranthene	10	330
43. Benzo (k) fluoranthene	10	330
44. Benzo (a) pyrene	10	330
45. Indeno (1,2,3-cd) pyrene	10	330
46. Dibenzo (a,h) anthracene	10	330
47. Benzo (g,h,i) perylene	10	330
48. 1,2-Dichlorobenzene	10	330
49. 1,3-Dichlorobenzene	10	330
50. 1,4-Dichlorobenzene	10	330

# Acid Target Compounds

Compound	Water CRDL	Soil/Solid CRDL
1. Benzoic Acid	50 ug/l	1600 ug/kg
2. Phenol	10	330
3. 2-chlorophenol	10	330
4. 2-nitrophenol	50	1600
5. 2-methylphenol	10	330
6. 2,4-dimethylphenol	10	330
7. 4-methylphenol	10	330
8. 2,4-dichlorophenol	10	330
9. 2,4,6-trichlorophenol	10	330
10. 2,4,5-trichlorophenol	50	1600
11. 4-chloro-3-methylphenol	10	330
12. 2,4-dinitrophenol	50	1600
13. 2-methyl-4,6-dinitrophenol	50	1600
14. Pentachlorophenol	50	1600
15. 4-nitrophenol	50	1600



# Pesticide Target Compounds

Compound	Water CRDL	Soil/Solid CRDL
1. alpha-BHC	.05 ug/l	8.0 ug/kg
2. beta-BHC	.05	8.0
3. delta-BHC	.05	8.0
4. Lindane (gamma-BHC)	.05	8.0
5. Heptachlor	.05	8.0
6. Aldrin	.05	8.0
7. Heptachlor epoxide	.05	8.0
8. Endosulfan I	.05	8.0
9. 4,4'-DDE	.10	16.0
10. Dieldrin	.10	16.0
11. Endrin	.10	16.0
12. 4,4'-DDD	.10	16.0
13. Endosulfan II	.10	16.0
14. 4,4'-DDT	.10	16.0
15. Endrin aldehyde	.10	16.0
16. Endosulfan sulfate	.10	16.0
17. Methoxychlor	.50	80.0
18. Chlordane	.50	80.0
19. Toxaphene	.50	80.0
20. Arochlor-1016	1.0	160.0
21. Arochlor-1221	.50	80.0
22. Arochlor-1232	.50	80.0
23. Arochlor-1242	.50	80.0
24. Arochlor-1248	.50	80.0
25. Arochlor-1254	1.0	160.0
26. Arochlor-1260	1.0	160.0

## Inorganic Target Compounds

### Metals Analyses (CRDL)-ug/l\*

Aluminum	200
Antimony	60
Arsenic	10
Barium	200
Beryllium	5
Cadmium	5
Chromium	10
Cobalt	50
Copper	~ 25
Iron	100
Lead	5
Manganese	15
Mercury	0.2
Nickel	40
Selenium	5
Silver	10
Thallium	10
Vanadium	50
Zinc	20

### Other Inorganics

Cyanide  
Sulfide  
Phenols  
Nitrogen-Ammonia  
Nitrogen, Total Kjeldahl  
Nitrogen-Nitrate  
Boron  
pH

\*Any analytical method specified in the Quality Assurance Project Plan (QAPP) may be utilized as long as the documented instrument or method detection limits meet the Contract Required Detection Level requirements. Higher detection levels may only be used in the following circumstance:

If the sample concentration exceeds two times the detection limit of the instrument or method in use, the value may be reported even though the instrument or method detection limit may not equal the CRDL. This is illustrated in the example below:

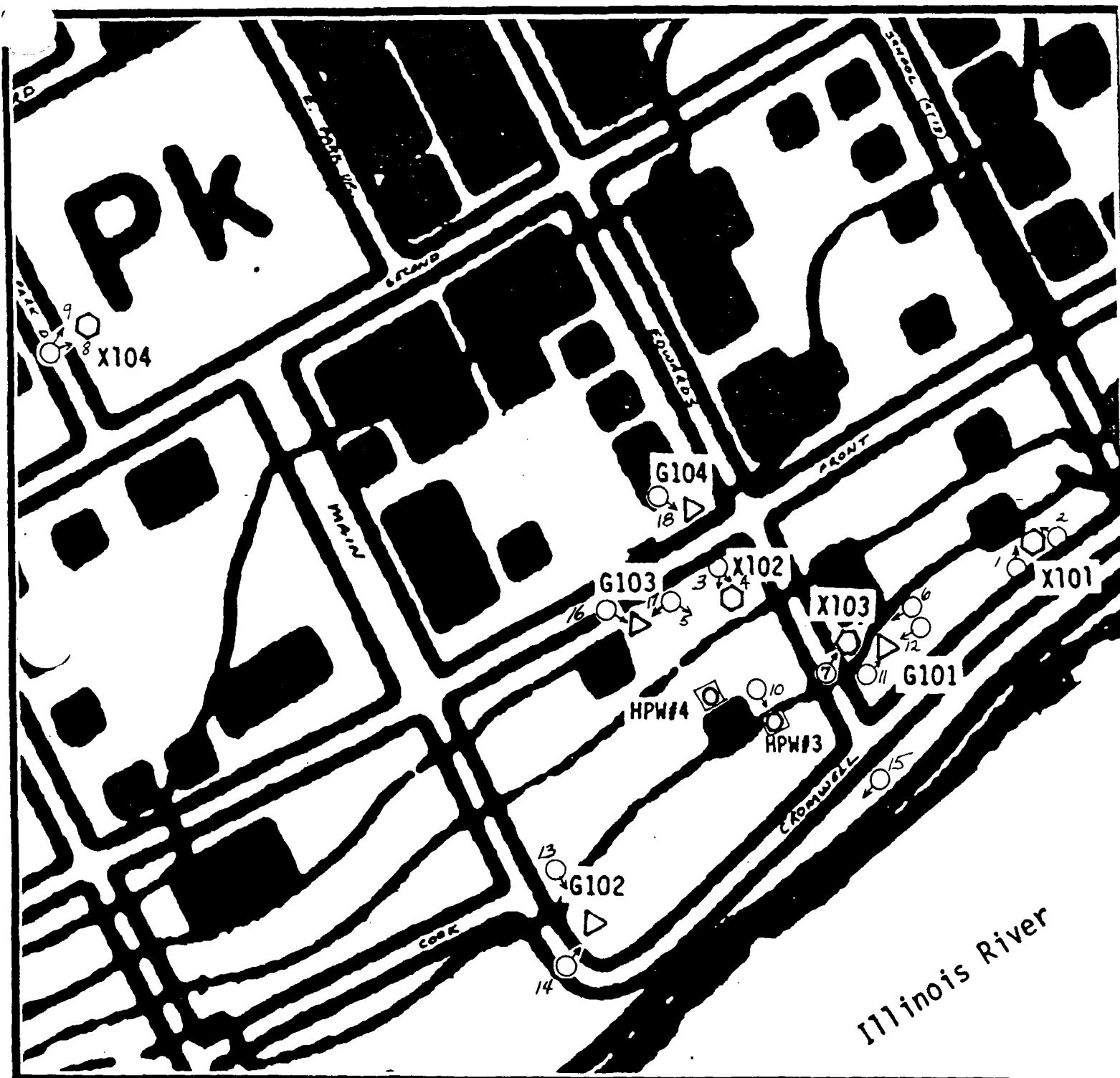
For lead:

Method in use -- ICP  
Instrument Detection Limit (IDL) = 40  
Sample Concentration = 85  
Contract Required Detection Level (CRDL) = 5

The value of 85 may be reported even though instrument detection limit is greater than required detection level. The instrument or method detection limit must be documented as described in Form IIIX.

These CRDL are the instrument detection limits obtained in pure water that must be met using ICP/Flame AA or Furnace AA. The detection limits for samples may be considerably higher depending on the sample matrix.

APPENDIX G  
IEPA SITE PHOTOGRAPHS



SOURCE: IEPA, 1989

PHOTO LOCATIONS

DATE: 8-2-89

TIME: 8:30 AM

Photograph by:

K. CORKILL

Location: X101

1230000000 - MARSHALL CO.

HENRY PUBLIC WELL #3

Comments: Picture taken toward

NORTH AT SMITH

LUMBER Co.



(1)

DATE: 8-2-89

TIME: 8:30

Photograph by:

K. CORKILL

Location: X101

1230000000 - MARSHALL CO.

HENRY PUBLIC WELL #3

Comments: Picture taken toward

NORTHWEST



(2)



DATE: 8-2-89

TIME: 9:30 AM

Photograph by:

K. CORKILL

Location: X102

1230000000 - MARSHALL CO.

HENRY PUBLIC WELL #3

Comments: Picture taken toward

SOUTH ON WATER

DEPT. PROPERTY



(3)

DATE: 8-2-89

TIME: 9:30 AM

Photograph by:

K. CORKILL

Location: X102

1230000000 - MARSHALL CO.

HENRY PUBLIC WELL #3

Comments: Picture taken toward

SOUTH-SOUTHEAST ON

WATER DEPT. PROPERTY



(4)



DATE: 8-2-89

TIME: 9:00 AM

Photograph by:

K. CORKILL

Location: X102

1230000000 - MARSHALL CO.

HENRY PUBLIC WELL #3

Comments: Picture taken toward

EAST FROM WATER

DEPT. PROPERTY



(5)

DATE: 8-2-89

TIME: 10:45 AM

Photograph by:

K. CORKILL

Location: X103

1230000000 - MARSHALL CO.

HENRY PUBLIC WELL #3

Comments: Picture taken toward

SOUTHWEST ON

FORMER FORD DEALERSHIP

PROPERTY



(6)



DATE: 8-2-89

TIME: 10:45 AM

Photograph by:

K. CORKILL

Location: X103

1230000000 - MARSHALL CO.

HENRY PUBLIC WELL #3

Comments: Picture taken toward

NORTHEAST TOWARD

OLD FORD DEALERSHIP.

(7)



DATE: 8-2-89

TIME: 11:00 AM

Photograph by:

K. CORKILL

Location: X104

1230000000 - MARSHALL CO.

HENRY PUBLIC WELL #3

Comments: Picture taken toward

EAST IN CITY PARK

2 BLOCKS NW OF PUBLIC

WELL #3

(8)



DATE: 8-2-89

TIME: 11:00 AM

Photograph by:

K. CORKILL

Location: X104

1230000000 - MARSHALL CO.

HENRY PUBLIC WELL #3

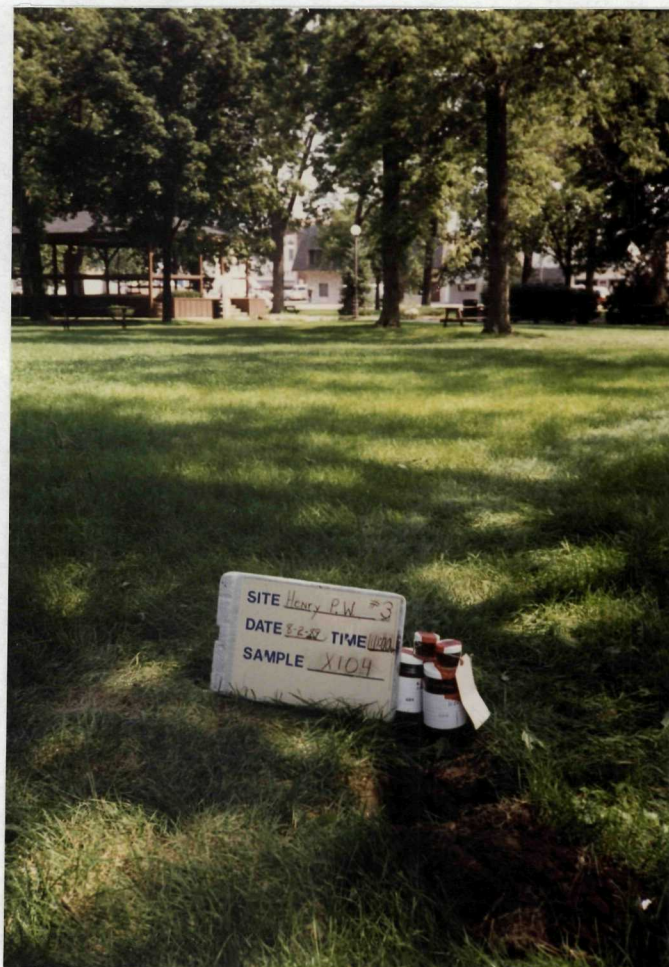
Comments: Picture taken toward

NORTH-NORTHEAST IN

CITY PARK 2 BLOCKS

NW OF PUBLIC WELL #3

(9)



DATE: 8-2-89

TIME: 9:00 AM

Photograph by:

K. CORKILL

Location: G-501 (HPW#3)

1230000000 - MARSHALL CO.

HENRY PUBLIC WELL #3

Comments: Picture taken toward

SOUTHEAST

(10)





DATE: 8-2-89

TIME: 12:30 pm

Photograph by:

K. CORKILL

Location: G101

1230000000 - MARSHALL CO.

HENRY PUBLIC WELL #3

Comments: Picture taken toward

EAST



(11)

DATE: 8-2-89

TIME: 12:30 pm

Photograph by:

K. CORKILL

Location: G101

1230000000 - MARSHALL CO.

HENRY PUBLIC WELL #3

Comments: Picture taken toward

SOUTHWEST TOWARD

WELL #3



(12)



DATE: 8-2-89

TIME: 1:00 pm

Photograph by:

K. CORKILL

Location: G-102

1230000000 - MARSHALL CO.

HENRY PUBLIC WELL #3

Comments: Picture taken toward

SOUTH TOWARD THE

ILLINOIS RIVER

(13)



DATE: 8-2-89

TIME: 1:00 pm

Photograph by:

K. CORKILL

Location: G-102

1230000000 - MARSHALL CO.

HENRY PUBLIC WELL #3

Comments: Picture taken toward

NORTHEAST TOWARD

PUBLIC WELL #3

(14)





DATE: 8-2-89

TIME: 1:15 pm

Photograph by:

K. CORKILL

Location: \_\_\_\_\_

1230000000 - MARSHALL CO.

HENRY PUBLIC WELL #3

Comments: Picture taken toward

SOUTHWEST FROM

CROMWELL DRIVE NEAR

PW #3



(15)

DATE: 8-2-89

TIME: 3:30 pm

Photograph by:

K. CORKILL

Location: G-103

1230000000 - MARSHALL CO.

HENRY PUBLIC WELL #3

Comments: Picture taken toward

SOUTHEAST TOWARD PUBLIC

WELL #3



(16)



DATE: 8-2-89

TIME: 3:30 pm

Photograph by:

K. CORKILL

Location: G103

1230000000 - MARSHALL CO.

HENRY PUBLIC WELL #3

Comments: Picture taken toward

SOUTHWEST TOWARD

THE CITY POOL



(17)

DATE: 8-2-89

TIME: 4:00 pm

Photograph by:

K. CORKILL

Location: G104

1230000000 - MARSHALL CO.

HENRY PUBLIC WELL #3

Comments: Picture taken toward

SOUTH TOWARD PUBLIC

WELL #3.



(18)